

# Anti-MMP-9 Antibody

Catalog # ABO10680

## Product Information

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|--------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB                                                                                                      |
| <b>Primary Accession</b> | <a href="#">P14780</a>                                                                                  |
| <b>Host</b>              | Rabbit                                                                                                  |
| <b>Reactivity</b>        | Human                                                                                                   |
| <b>Clonality</b>         | Polyclonal                                                                                              |
| <b>Format</b>            | Lyophilized                                                                                             |
| <b>Description</b>       | Rabbit IgG polyclonal antibody for Matrix metalloproteinase-9(MMP9) detection. Tested with WB in Human. |
| <b>Reconstitution</b>    | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                    |

## Additional Information

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| <b>Gene ID</b>                  | 4318                                                                                                                                                                                                                                |
| <b>Other Names</b>              | Matrix metalloproteinase-9, MMP-9, 3.4.24.35, 92 kDa gelatinase, 92 kDa type IV collagenase, Gelatinase B, GELB, 67 kDa matrix metalloproteinase-9, 82 kDa matrix metalloproteinase-9, MMP9, CLG4B                                  |
| <b>Calculated MW</b>            | 78458                                                                                                                                                                                                                               |
| <b>Application Details</b>      | Western blot, 0.1-0.5 µg/ml, Human, Rat                                                                                                                                                                                             |
| <b>Subcellular Localization</b> | Secreted, extracellular space, extracellular matrix .                                                                                                                                                                               |
| <b>Tissue Specificity</b>       | Produced by normal alveolar macrophages and granulocytes.                                                                                                                                                                           |
| <b>Source</b>                   | Eukaryota                                                                                                                                                                                                                           |
| <b>Protein Name</b>             | Matrix metalloproteinase-9(MMP-9)                                                                                                                                                                                                   |
| <b>Contents</b>                 | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> .                                                                                                       |
| <b>Immunogen</b>                | A synthetic peptide corresponding to a sequence at the C-terminus of human MMP-9(689-705aa NQVDQVGVTYDILQCP), different from the related mouse sequence by two amino acids, and from the related rat sequence by three amino acids. |
| <b>Purification</b>             | Immunogen affinity purified.                                                                                                                                                                                                        |
| <b>Cross Reactivity</b>         | No cross reactivity with other proteins                                                                                                                                                                                             |

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| <b>Storage</b>               | At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing. |
| <b>Sequence Similarities</b> | Belongs to the peptidase M10A family.                                                                                                                                              |

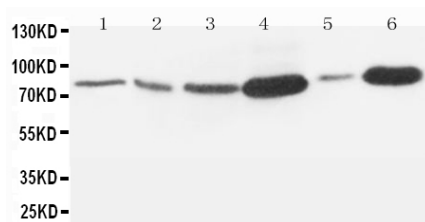
## Protein Information

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|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>              | MMP9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>          | CLG4B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Function</b>          | Matrix metalloproteinase that plays an essential role in local proteolysis of the extracellular matrix and in leukocyte migration (PubMed: <a href="#">12879005</a> , PubMed: <a href="#">1480034</a> , PubMed: <a href="#">2551898</a> ). Could play a role in bone osteoclastic resorption (By similarity). Cleaves KiSS1 at a Gly- -Leu bond (PubMed: <a href="#">12879005</a> ). Cleaves NINJ1 to generate the Secreted ninjurin-1 form (PubMed: <a href="#">32883094</a> ). Cleaves type IV and type V collagen into large C-terminal three quarter fragments and shorter N- terminal one quarter fragments (PubMed: <a href="#">1480034</a> ). Degrades fibronectin but not laminin or Pz-peptide. |
| <b>Cellular Location</b> | Secreted, extracellular space, extracellular matrix                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Tissue Location</b>   | Detected in neutrophils (at protein level) (PubMed:7683678). Produced by normal alveolar macrophages and granulocytes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## Background

Matrix metalloproteinase 9 (MMP-9), also known as 92 kDa type IV collagenase, 92 kDa gelatinase or gelatinase B (GELB), is an enzyme that in humans is encoded by the MMP9 gene. Proteins of the matrix metalloproteinase (MMP) family are involved in the breakdown of extracellular matrix in normal physiological processes. Most MMPs are secreted as inactive proproteins which are activated when cleaved by extracellular proteinases. The enzyme encoded by this gene degrades type IV and V collagens. Studies in rhesus monkeys suggest that the enzyme is involved in IL-8-induced mobilization of hematopoietic progenitor cells from bone marrow, and murine studies suggest a role in tumor-associated tissue remodeling.

## Images



Anti-MMP-9 antibody, ABO10680, Western blotting  
Lane 1: Rat Embryo Tissue Lysate  
Lane 2: MM453 Cell Lysate  
Lane 3: HELA Cell Lysate  
Lane 4: SMMC Cell Lysate  
Lane 5: JURKAT Cell Lysate  
Lane 6: HT1080 Cell Lysate

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.